

Soybean Herbicide Programs for Giant Ragweed

Janesville, WI 2024

Trial Information

Trial Sponsor: BASF, FMC, Valent, Wisconsin Cropping Systems Weed Science

Objective: Evaluate several 2- and 3-pass herbicide programs for season-long giant ragweed control and soybean yield

Crop: Soybean

Hybrid: NK22-C4E3

Weed species (pressure): giant ragweed (moderate-high)

Herbicide Application(s): PRE – 5/15
EPOST – 5/29 (VC soybean)
MPOST – 6/11 (V1/V2 soybean)
POST – 6/25 (V5 soybean)
LPOST – 7/1 (V6 soybean)

For the full report see trial #24-ROK-SB21 in the [2024 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

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Trt #	Herbicide (rate acre ⁻¹)	Soybean Injury (%)			Canopy	Giant Ragweed (%)					Yield ^b bu acre ⁻¹	
		6/4	6/11	6/25		6/4	6/11	6/25	7/8	9/18		
1	Untreated Check	0	0	0	-	0	0	0	0	0	6 c	
Two-Pass – EPOST (5/15) fb POST (6/25)					POST							
3	FirstRate (0.6 oz) + Dual II Magnum (1.3 pt) + Roundup PM3 (20 oz) + AMS ^d fb Liberty (32 oz) + Roundup PowerMAX3 (26 oz) + AMS ^c	1.3	9.3	3.5	55	94	93	79	98	99	71 a	
4	Prefix (2.33 pt) + Pursuit (4 oz) + Roundup PM3 (20 oz) + AMS ^d fb Liberty (32 oz) + Roundup PowerMAX3 (26 oz) + AMS ^c	15.0	16.8	10.3	48	95	95	81	99	99	72 a	
Two-Pass – PRE (5/15) fb MPOST (6/11)		MPOST			MPOST							
2	Authority First (5 oz) fb Roundup PowerMAX3 + AMS ^c	0.3	1.8	2.0	58	85	87	89	87	84	68 a	
5	Fierce XLT (3.75 oz) fb Liberty (32 oz) + Perpetuo (6 oz) + COC (1% v/v) + AMS ^c	6.5	6.0	16.5	50	79	76	93	83	67	64 ab	
6	Valor XLT (5 oz) fb Liberty (32 oz) + Perpetuo (6 oz) + COC (1% v/v) + AMS ^c	9.0	7.5	15.8	48	88	83	94	86	78	68 a	
7	Tendovo (2.1 qt) fb Flexstar GT (3.5 pt) + NIS (0.25% v/v) + AMS ^c	0.0	4.3	7.3	53	86	87	94	92	92	68 a	
8	Authority First (6.4 oz) + Anthem Maxx (3 fl oz) fb Liberty (32 oz) + Flexstar (1 pt) + COC (1% v/v) + AMS ^c	2.0	1.5	12.0	52	84	82	99	95	94	73 a	
9	Zidua PRO (6 oz) fb Liberty ULTRA (24 oz) + Enlist One (2 pt) + Roundup PM3 (20 oz) + AMS ^c	0.0	0.8	5.5	56	63	55	98	92	87	71 a	
10	Zidua PRO (6 oz) fb Liberty ULTRA (29 oz) + Roundup PM3 (30 oz) + AMS ^c	0.0	0.0	2.3	57	70	61	91	84	78	60 ab	
12	Surveil (4.2 oz) fb Basagran 5L (1.6 pt) + Poast (1 pt) + MSO (1% v/v) + AMS ^c	9.0	8.5	5.8	55	88	83	89	78	66	55 b	
13	Surveil (4.2 oz) fb Flexstar (1 pt) + Poast (1 pt) + MSO (1% v/v) + AMS ^c	7.3	7.5	13.5	48	90	86	96	90	86	64 ab	
14	Surveil (4.2 oz) fb Flexstar (1 pt) + Basagran 5L (1.6 pt) + Poast (1 pt) + MSO (1% v/v) + AMS ^c	9.0	8.0	22.8	36	87	84	96	90	85	66 ab	
Three-Pass – PRE (5/15) fb MPOST (6/11) fb LPOST (7/1)					LPOST							
15	Storm (1.5 pt) + Poast (1 pt) + COC (1% v/v) + AMS ^c fb Basagran 5L (1.6 pt) + COC (1% v/v) + AMS ^c	8.8	8.3	27.8	33	84	87	95	97	94	66 ab	
11	Surveil (4.2 oz) fb Liberty (32 oz) + Roundup PM3 (26 oz) + AMS ^c fb Liberty (32 oz) + AMS ^c	8.5	8.5	10.0	48	89	86	95	100	100	67 a	
		LSD ($\alpha=0.10$)	2.4	4.1	3.8	4	9	9	5	7	12	7
		p value	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001

^bYield values with the same letter are not significantly different.

^cAMS = AMSOL/Dry, ^dapplied at 3 lb/a; ^eapplied at 8.5 lb/100 gal.

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Plot pictures taken on 6/4
20 days after the PRE application
6 days after the EPOST application

The number in the upper right-hand corner is the average %
soybean injury of 4 replications

**20 days after PRE (6/4)
Untreated Check**

0%



6 days after EPOST (6/4)

EPOST: 0.6 oz FirstRate + 1.3 pt Dual II Magnum + 20 oz RU PM3 + AMS

1%



6 days after EPOST (6/4)

EPOST: 2.33 pt Prefix + 4 oz Pursuit + 20 oz Roundup PM3 + AMS

15%



20 days after PRE (6/4)

PRE: 5 oz Authority First

0%



20 days after PRE (6/4)
PRE: 3.75 oz Fierce XLT

7%



**20 days after PRE (6/4)
PRE: 5 oz Valor XLT**

9%



20 days after PRE (6/4)
PRE: 2.1 qt Tendovo

0%



20 days after PRE (6/4)

PRE: 6.4 oz Authority First + 3 oz Anthem Maxx

2%



**20 days after PRE (6/4)
PRE: 6 oz Zidua PRO**

0%



20 days after PRE (6/4)
PRE: 4.2 oz Surveil

9%



Soybean Herbicide Programs for Giant Ragweed

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Plot pictures taken on 6/11

27 days after the PRE application

13 days after the EPOST application

The day of the MPOST application

The number in the upper right-hand corner is the average % soybean injury of 4 replications

27 days after PRE (6/11)

Untreated Check

0%



13 days after EPOST (6/11)

EPOST: 0.6 oz FirstRate + 1.3 pt Dual II Magnum + 20 oz RU PM3 + AMS

9%



13 days after EPOST (6/11)

17%

EPOST: 2.33 pt Prefix + 4 oz Pursuit + 20 oz Roundup PM3 + AMS



**27 days after PRE (6/11)
PRE: 5 oz Authority First**

2%



27 days after PRE (6/11)

PRE: 3.75 oz Fierce XLT

6%



27 days after PRE (6/11)

PRE: 5 oz Valor XLT

8%



27 days after PRE (6/11)
PRE: 2.1 qt Tendovo

4%



27 days after PRE (6/11)

PRE: 6.4 oz Authority First + 3 oz Anthem Maxx

2%



27 days after PRE (6/11)

PRE: 6 oz Zidua PRO

0%



27 days after PRE (6/11)
PRE: 4.2 oz Surveil

8%

